

Application/Control Number: 10/054,038

Page 2

Art Unit: 1795

CImpto

Pln

1. A communication terminal device comprising:

a packet unit determining unit for determining a most appropriate packet unit for transmission data to be packetized; and

a packet generator for packetizing the transmission data based on a packet unit determined by said packet unit determining unit.

2. A communication terminal device according to claim 1, wherein said packet unit determining unit comprises means for determining the appropriate packet unit based on packet units that can be transmitted by the communication terminal device and packet units that can be transmitted by a destination communication terminal device.

3. A communication terminal device according to claim 1, further comprising at least one of:

means for transmitting a query about packet units that can be transmitted by a destination communication terminal device to the destination communication terminal device; and

means for responding to a query about packet units that can be transmitted by the communication terminal device from the destination communication terminal device.

4. A communication terminal device according to claim 2, further comprising:

means for storing information with respect to the packet

Art Unit: 1795

units that can be recognized by the destination communication terminal device.

5. A communication terminal device according to claim 1, further comprising:

means for, if a retransmission request occurs while packets are being transmitted, transmitting data subsequent to the retransmission request according a smaller packet unit.

6. A billing device comprising:

means for generating a billing file storing information for billing which includes the type of a transmitted packet unit, the number of transmitted packets, and a packet communication rate, with respect to an ID to be billed; and

means for generating a charging file for the ID to be billed for a predetermined period.

7. A method for determining packet units for transmission data to be packetized and transmitted from a communication terminal device to a destination communication device, the method comprising the step of:

(1) determining packet units recognizable by said destination communication device for transmitting transmission data from said communication terminal device to said destination communication device;

(2) selecting a packet unit recognizable by said destination communication device to minimize the amount of transmission data for said packet unit; and

(3) packetizing said transmission data according to the packet unit selected in step (3).

8. The method according to Claim 7, further comprising transmitting said packetized transmission data from said communication terminal device to said destination communication device.

9. The method according to Claim 7, further comprising determining whether information regarding packet units that can be recognized by said destination communication device is stored in a memory of said communication terminal device.

10. The method according to Claim 8, further comprising:
generating a retransmission request after said transmitting step requesting a different packet unit size;
repacketizing said transmission data into a different packet unit size according to said retransmission request; and
transmitting said repacketized transmission data to said destination communication device.